K132507



510(k) SUMMARY

VITEK® 2 AST-ST Meropenem

NOV 1 5 2013

510(k) Submission Information:

Submitter's Name:

bioMérieux, Inc.

Address:

595 Anglum Road

Hazelwood, MO 63042

Contact Person:

Nathan Hardesty

Staff Regulatory Affairs Specialist

Phone Number:

314 - 731 - 8666

Fax Number:

314-731-8689

Date of Preparation:

August 9, 2013

B. Device Name:

Formal/Trade Name:

VITEK® 2 AST-ST Meropenem

Classification Name:

21 CFR 866.1645

Fully Automated Short-Term Incubation Cycle Antimicrobial

Susceptibility System Product Code LON

Common Name:

VITEK® 2 AST-ST Meropenem

C. Predicate Device:

VITEK® 2 AST-ST Ceftriaxone (K122359)

D. 510(k) Summary:

VITEK® 2 Streptococcus Meropenem is designed for antimicrobial susceptibility testing of Streptococcus species and is intended for use with the VITEK® 2 and VITEK® 2 Compact Systems as a laboratory aid in the determination of in vitro susceptibility to antimicrobial agents. VITEK® 2 Streptococcus Meropenem is a quantitative test. Meropenem has been shown to be active against most strains of the microorganisms listed below, according to the FDA label for this antimicrobial.

Active in vitro and in clinical infections

Streptococcus pneumoniae (penicillin-susceptible strains) Streptococcus agalactiae

Streptococcus pyogenes

The VITEK® 2 Antimicrobial Susceptibility Test (AST) is intended to be used with the VITEK® 2 Systems for the automated quantitative or qualitative susceptibility testing of isolated colonies for the most clinically significant aerobic gram-negative bacilli, *Staphylococcus spp.*, *Enterococcus spp.*, *Streptococcus spp.*, and clinically significant yeast.

The antimicrobial presented in VITEK® 2 AST-ST Cards is in concentrations equivalent by efficacy to standard method concentrations in mcg/ml. The VITEK® 2 AST Cards are essentially miniaturized versions of the doubling dilution technique for determining the minimum inhibitory concentration (MIC) microdilution methodology.

The isolate to be tested is diluted to a standardized concentration in 0.45 - 0.50% saline before being used to rehydrate the antimicrobial medium within the card. The VITEK® 2 automatically fills, seals and places the card into the incubator/reader. The VITEK® 2 Compact has a manual filling and sealing operation. The VITEK® 2 monitors the growth of each well in the card over a defined period of time (up to 18 hours). At the completion of the incubation cycle, a report is generated that contains the MIC value along with the interpretive category result for each antimicrobial contained on the card.

VITEK® 2 AST-ST Meropenem demonstrated substantially equivalent performance when compared with the CLSI broth microdilution reference method, as defined in the FDA Class II Special Controls Guidance Document: Antimicrobial Susceptibility Test (AST) Systems; Guidance for Industry and FDA. Issued August 28, 2009.

The Premarket Notification (510[k]) presents data in support of VITEK® 2 AST-ST Meropenem. An external evaluation was conducted with fresh and stock clinical isolates, as well as a set of challenge strains. The external evaluations were designed to confirm the acceptability of VITEK® 2 AST-ST Meropenem by comparing its performance with the CLSI broth microdilution reference method incubated at 20 - 24 hrs. The data is representative of performance on both the VITEK® 2 and VITEK® 2 Compact instrument platforms. VITEK® 2 AST-ST Meropenem demonstrated acceptable performance of 98.6% overall essential Agreement and 96.6% overall category agreement with the reference method. Reproducibility and Quality Control demonstrated acceptable results.



Food and Drug Administration 10903 New Hampshire Avenue Document Control Center -- WO66-G609 Silver Spring, MD 20993-0002

November 15, 2013

bioMerieux, Inc. c/o Mr. Nathan Hardesty Staff Regulatory Affairs Specialist 595 Anglum Road Hazelwood, MO 63042

Re: K132507

Trade/Device Name: VITEK[®] 2 AST-ST Meropenem (≤0.06 - ≥4µg/mL)

Regulation Number: 21 CFR 866.1645

Regulation Name: Fully Automated Short-Term Incubation Cycle Antimicrobial

Susceptibility System

Regulatory Class: II Product Code: LON Dated: August 27, 2013 Received: August 28, 2013

Dear Mr. Hardesty:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21)

CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Sally AFT的vat -S

Sally A. Hojvat, M.Sc., Ph.D.
Director
Division of Microbiology Devices
Office of In Vitro Diagnostics and Radiological
Health
Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known): K132507

(≤ 0.06 - ≥ 4 µg/mL)
Indications For Use:
VITEK® 2 Streptococcus Meropenem is designed for antimicrobial susceptibility testing of Streptococcus species and is intended for use with the VITEK® 2 and VITEK® 2 Compact Systems as a laboratory aid in the determination of in vitro susceptibility to antimicrobial agents VITEK® 2 Streptococcus Meropenem is a quantitative test. Meropenem has been shown to be active against most strains of the microorganisms listed below, according to the FDA label for this antimicrobial.
Active in vitro and in clinical infections Streptococcus pneumoniae (penicillin-susceptible strains) Streptococcus agalactiae Streptococcus pyogenes
The VITEK® 2 Antimicrobial Susceptibility Test (AST) is intended to be used with the VITEK® Systems for the automated quantitative or qualitative susceptibility testing of isolated colonies for the most clinically significant aerobic gram-negative bacilli, Staphylococcus spp., Enterococcus spp., Streptococcus spp., and clinically significant yeast.
Prescription Use X AND/OR Over-The-Counter Use (21 CFR 801 Subpart D) (21 CFR 807 Subpart C)
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)
Concurrence of Center for Devices and Radiological Health (CDRH)

Ribhi Shawar -S 2013.11.12 16:59:21 -05'00'